

BUILDING INSPECTION TECHNOLOGY

pcc.edu/programs/building-inspection/

CAREER AND PROGRAM DESCRIPTION

PCC's Building Inspection Technology program provides a diverse set of skills, enabling students to begin a career working in governmental jurisdictions or private industry, as a Building Inspector or Plans Examiner position. The degree in Building Inspections Technology trains for work in building inspections and plan review, for both residential and commercial buildings. The Certificate in Residential Plans Examination trains for work in residential inspection and plan review; ideally for someone with some construction background. (Please note, the Certificate does not provide training as a home inspector, who typically is part of a real estate transaction).

The Building Inspection Technology (INSP) program is delivered by experts currently working in the field. Students develop and apply basic understanding of concepts, theories, and principles of construction and building codes with both a residential and commercial focus. A broad curriculum including:

- construction materials and processes
- printreading
- building systems
- building structures
- residential and commercial building codes
- residential and commercial plans review

in addition to courses in:

- interpersonal communication
- computers
- mathematics
- job finding skills

Also, cooperative work experience (internship) at a local city or county building department prepares students for a career in building inspection and/or plan review. Graduates may find employment in public and private code enforcement agencies, construction firms, engineering or architectural firms, and other related industries.

PCC is the only college in Oregon to offer career and technical training in Building Inspections Technology, in a full or part - time format. All INSP classes are offered in the evening on the Sylvania campus and a few courses are offered in an online format. Most of the courses have an evening offering. There is no online only option. For more information or availability of individual courses please contact the department advisor, at 971-722-4166. Students who wish to transfer to a college or university to obtain a bachelor's degree should check with the specific institution for transferability.

DEGREES AND CERTIFICATES OFFERED

ASSOCIATE OF APPLIED SCIENCE DEGREE

Building Inspection Technology

LESS THAN ONE-YEAR: CAREER PATHWAY CERTIFICATE

Residential Plans Examination

Academic Prerequisites

- None

Academic Requirements

- All ARCH and INSP courses must be completed with a letter grade of "C" or better.

Non-Academic Prerequisites

- None

Non-Academic Requirements

- None

BUILDING INSPECTION TECHNOLOGY AAS DEGREE

Minimum 91 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of four courses of General Education. Some courses specified within the program may be used as General Education. In addition to required courses in the program of study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.

Building Inspection Technology Courses

Code	Title	Credits
ARCH 121	Structural Systems I	2
ARCH 122	Structural Systems 2	3
ARCH 123	Structural Systems 3	3
ARCH 124	Introduction to Building Systems	3
ARCH 132	Residential Building Codes	2
ARCH 134	Energy Conservation Code	2
ARCH 161	Residential Print Reading	2
ARCH 162	Commercial Print Reading	2
CG 209	Job Finding Skills	1-2
COMM 140	Introduction to Intercultural Communication	4
	or COMM 100	
INSP 126	Plan Review Software	2
INSP 151	International Residential Code Structural 1	4
INSP 152	International Residential Code Mechanical	2
INSP 251	International Building Code I	4
INSP 252	International Building Code II	3
INSP 253	International Building Code III	3
INSP 255	International Mechanical Code I	4
INSP 256	International Mechanical Code II	4
INSP 280	CE: Field Experience Inspection	10
	COMM/MSD Electives	6
	INSP/ARCH Electives	16
	General Education: 3 courses	
Total Credits		91-92

* Could be used for general education.

BUILDING INSPECTION/ARCHITECTURE ELECTIVES

Code	Title	Credits
ARCH 131	Sustainable Building Strategies	4
ARCH 133	Commercial Building Codes	2
ARCH 224	Active and Passive Building Systems	4
BCT 100	Overview to the Construction Industry	3
BCT 130	Construction Safety	3
INSP 201	Plans Examination-Commercial	4
INSP 202	Plans Examination-Residential	4

INSP 203	International Building Code Fire and Life Safety	3
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COMMUNICATION/MSD ELECTIVES

Code	Title	Credits
COMM 130	Business & Professional Communication	4
COMM 237	Gender and Communication	4
MSD 105	Workplace Communication Skills	3
MSD 117	Customer Relations	3
MSD 128	Crisis Intervention: Handling the Difficult Person	1
MSD 150	Listening Skills	1
MSD 151	Working with Difficult People	1
MSD 157	Constructive Conflict Skills	1
MSD 161		1

RESIDENTIAL PLANS EXAMINATION CAREER PATHWAY CERTIFICATE

Minimum 42 credits. Students must meet all certificate requirements. The Residential Plans Examination certificate is a career pathway. All courses are contained in the Building Inspection Technology AAS Degree. A maximum of 10 Pass/No Pass credits are allowed in the Residential Plans Examination Career Pathway Certificate.

Residential Plans Examination Courses

Code	Title	Credits
ARCH 121	Structural Systems I	2
ARCH 122	Structural Systems 2	3
ARCH 123	Structural Systems 3	3
ARCH 124	Introduction to Building Systems	3
ARCH 132	Residential Building Codes	2
ARCH 161	Residential Print Reading	2
CG 209	Job Finding Skills	1
COMM 140	Introduction to Intercultural Communication	4
INSP 151	International Residential Code Structural 1	4
INSP 152	International Residential Code Mechanical	2
INSP 202	Plans Examination-Residential	4
INSP 280	CE: Field Experience Inspection	10
COMM/MSD Electives		2
Total Credits		42

COMMUNICATION/MSD ELECTIVES

Code	Title	Credits
COMM 130	Business & Professional Communication	4
COMM 237	Gender and Communication	4
MSD 105	Workplace Communication Skills	3
MSD 117	Customer Relations	3
MSD 128	Crisis Intervention: Handling the Difficult Person	1
MSD 150	Listening Skills	1
MSD 151	Working with Difficult People	1
MSD 157	Constructive Conflict Skills	1
MSD 161		1

INSP 126. Plan Review Software. 2 Credits.

Introduces Plan Review software as a tool for online review of plan submittals for building permits. Prerequisite: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

INSP 151. International Residential Code Structural 1. 4 Credits.

Covers International Residential Building Codes and building inspection practices. Audit available.

INSP 152. International Residential Code Mechanical. 2 Credits.

Covers residential building mechanical systems code requirements as detailed in the International Residential Building Code manual. Prerequisite: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

INSP 201. Plans Examination-Commercial. 4 Credits.

Covers commercial plans examination and code compliance for building permit applications. Includes procedures for review of plan submittals and code administration. Prerequisite: ARCH 162 and INSP 252 and (MTH 60 or equivalent placement test score). Audit available.

INSP 202. Plans Examination-Residential. 4 Credits.

Covers residential plans examination and the skills needed to determine code compliance for building permit applications. Includes procedures for the review of plan submittals and code administration. Prerequisites: ARCH 122, ARCH 161, INSP 151. Prerequisite/concurrent: ARCH 123. Audit available.

INSP 203. International Building Code Fire and Life Safety. 3 Credits.

Addresses fire and life safety requirements in the International Fire and Building codes. Includes building occupancies, exit systems, hazardous materials' regulations, site access, water availability, and fire protection systems. Prerequisites: INSP 201 and INSP 252 or department approval. Audit available.

INSP 251. International Building Code I. 4 Credits.

Covers nonstructural regulations of the International Building Code. Includes administration, occupancy classification, building area & height, construction types, interior environments, and fire resistive standards for small commercial and multi-story structures. Prerequisite: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

INSP 252. International Building Code II. 3 Credits.

Continues the study of the International Building Code. Includes fire protection and egress systems, accessibility, sanitation, and building materials. Prerequisite: INSP 251. Audit available.

INSP 253. International Building Code III. 3 Credits.

Introduces the requirements for structural engineering, within the International Building Code, as applied to small commercial structures of three stories and less. Prerequisites: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

INSP 255. International Mechanical Code I. 4 Credits.

Covers International Mechanical Code regulations for permitting. Includes general requirements, and application of codes to inspection requirements, including exhaust systems, kitchen hoods and duct systems. Prerequisites: (WR 115 and RD 115) or IRW 115 and MTH 20 or equivalent placement. Audit available.

INSP 256. International Mechanical Code II. 4 Credits.

Covers International Mechanical Code regulations for permitting, and application to inspection requirements. Includes combustion air, chimneys and vents, refrigeration, and specific appliance systems. Prerequisite: INSP 255. Audit available.

INSP 280. CE: Field Experience Inspection. 1-10 Credit.

Provides an opportunity to work at approved job sites. Explores a variety of experiences and placement opportunities. Requirement: Coordination with student, supervisor, instructor and cooperative education specialists. Prerequisite: Department approval.

INSP 280B. Cooperative Education: Field Experience. 1-5 Credit.

Work on approved job sites where student will receive as varied and complete an experience as possible under job conditions. Credits are variable and based on the number of clock hours student spends on job site. Must be coordinated with supervisor, instructor, and cooperative education specialist. Department permission required.

INSP 203. International Building Code Fire and Life Safety. 3 Credits.

Addresses fire and life safety requirements in the International Fire and Building codes. Includes building occupancies, exit systems, hazardous materials' regulations, site access, water availability, and fire protection systems. Audit available. Prerequisites: INSP 201 and INSP 252 or department approval.